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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/814,752	03/23/2001	Wei-Chih Chen	022817-00023	4220

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EXAMINER

PHU, SANH D

ART UNIT	PAPER NUMBER
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2682

DATE MAILED: 03/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/814,752

Applicant(s)

CHEN ET AL.

Examiner

Sanh D Phu

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 5 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☒ Claim(s) 3,4,6 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

1. This office action is responsive to the applicant's response filed on date 2/4/2004.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) The invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claim 1, 2 and 5 are rejected under U.S.C. 102 (a) as being anticipated by the prior art, which is admitted by the applicant in the specification.

Regarding to claim 1, see pages 1 and 2 of the specification, the admitted prior art discloses a mobile phone having a keypad module and an LCM module, comprising:

a main printed circuit board (see page 1, line 7), a first contact point and first lateral short leg (considered together as first connector) and a second contact point and a second lateral short leg (considered together as second connector) being welded respectively onto a first predetermined location and a second predetermined location on the main printed board (see page 2, lines 2-4), a first reference power supply and a second reference power supply being provided respectively to said first connector and said second connector (see page 2, lines 4-6), said main printed circuit board being divided into a first portion corresponding to said keypad module and a second portion corresponding to said LCM module (see page 1, lines 7-8);

a holder, said holder comprising a space accommodating said LCM module, said holder comprising a slit at a predetermined location of said holder (see page 1, lines 15-18); and

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a secondary printed circuit board for carrying a plurality of LEDs to provide a back light source (see page 1, lines 18-20), said secondary printed circuit board being disposed within said slit (see page 1, lines 16-18), said secondary printed circuit board comprising a first contact point and a second contact point, wherein said first contact point correspondingly contacts with said first connector and said second contact point correspondingly contacts with said second connector (see page 1, line 21 to page 2, line 9).

Regarding to claim 2, the admitted prior art discloses that said first connector and said second connector are respectively welded onto said main printed circuit board (see page 2, lines 1-8), which is inherently made by means of a technology.

Regarding to claim 5, the claim is interpreted and rejected for the same reason as set forth in claim 2.

Allowable Subject Matter

4. Claims 3,4 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 3, the prior art of record fails to teach an electro-luminescent sheet to provide another back light source.

Regarding claim 6, the prior art of record fails to teach steps 4 and 5 as claimed.

Response to Applicant's Arguments

5 Applicant's Arguments filed on 2/4/04 have been fully considered; however, they are not persuasive.

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Applicant mainly argues that (i) with respect to claim 1, the admitted prior art does not teach a first connector welded to the main printed circuit board; (ii) with respect to claim 2, the admitted prior art does not teach that said first connector and said second connector are welded on said main printed circuit board by means of a surface mounting technology; and (iii) with respect to claim 5, the admitted prior art does not teach the steps recited in the claim.

Regarding to part (i), the examiner respectfully disagrees. Note that the rejection is based on the limitations given in the claim. The admitted prior art does disclose a first connector welded to the main printed circuit board, as claimed, wherein the first connector is considered here as a connection device which connects the first printed circuit board with the second printed circuit board in the admitted prior art's invention in such a way that the first connector comprises a first lateral short leg being welded onto the main printed circuit board at the first contact point, and the first connector connects the main printed circuit board with the second printed circuit board by the first lateral short leg at one end of the secondary printed circuit board (see specification of the instant application, line 21 page 1 to line 9 of page 2). Further, the claim does not have other limitations to make "first connector" distinguishable from the admitted prior art's first connector.

Regarding to part (ii), the examiner also disagrees. The admitted prior art invention inherently utilizes a means of surface mounting technique or technology in order to weld the first connector and said second connectors onto a surface of said main printed circuit board (see specification, lines 1-9, page 2). Further, the claim does not have other limitations to make the claimed means of a surface mounting technology distinguishable from the admitted prior art's means of a surface mounting technology.

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Regarding to part (iii), the examiner also disagrees. With reasons set forth for claims 1 and 2, the admitted prior art does teach the steps, as claimed wherein:

step of “welding, by a surface mounting technology, a first connector and a second connector respectively onto a first predetermined location and a second predetermined location of said main printed circuit board” is disclosed by the admitted prior, on page 1, line 21 to page 2, line 9;

step of “inserting said secondary printed circuit board within said slit of said holder” is disclosed by the admitted prior, on page 1, lines 15-18; and

step of “connecting said holder with said main printed circuit board in order to make said first contact point of said secondary printer circuit board contact correspondingly with said first connector, and to make said second contact point of said second printed circuit board contact correspondingly with said second connector” is disclosed by the admitted prior, on page 1, lines 15 to page 2, line 9, wherein the admitted prior art discloses that said secondary printed circuit board of said holder connects with said main printed circuit board by welding said first connector and a second connector onto said main printed circuit board to make said first contact point of said secondary printer circuit board contact correspondingly with said first connector, and to make said second contact point of said second printed circuit board contact correspondingly with said second connector.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

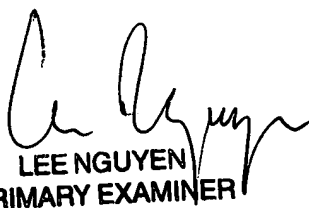
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (703) 305-8635. The examiner can normally be reached on 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-301-6739. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-8635.

Sanh D. Phu
Examiner
Art Unit 2682

SP


LEE NGUYEN
PRIMARY EXAMINER